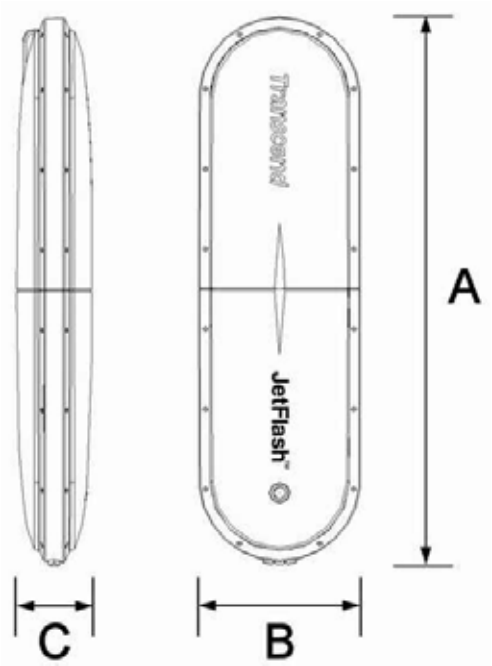
TS1GJF2B

1GB USB2.0 JetFlash™

Description

TS1GJF2B is a 1GB USB2.0 Flash Disk with 1 pcs of 1Gx8 (or 2 pcs of 512Mx8) Flash Memory assembled on a printed circuit board.

Outline



Features

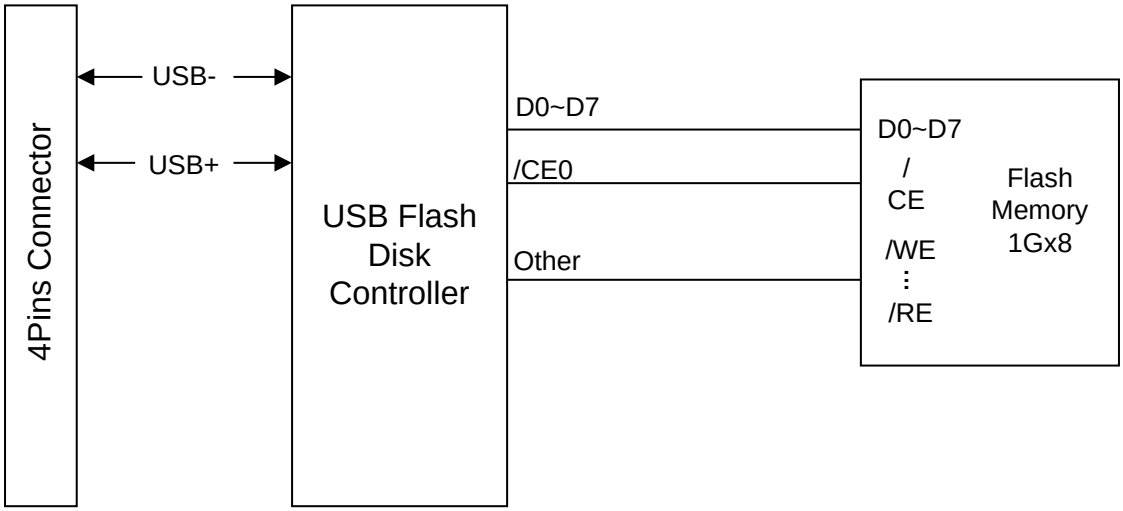
- USB Interface: Compliant with USB specification 2.0
- Write Protection: Write-protect switch provided
- Security Function: Password protection provided
- Boot-Up Function: USB-ZIP/USB-HDD boot-up mode supported
- Recovery Function: Return JetFlash to its initial status
- No external power or battery needed
- LED indicates the usage status

Dimensions

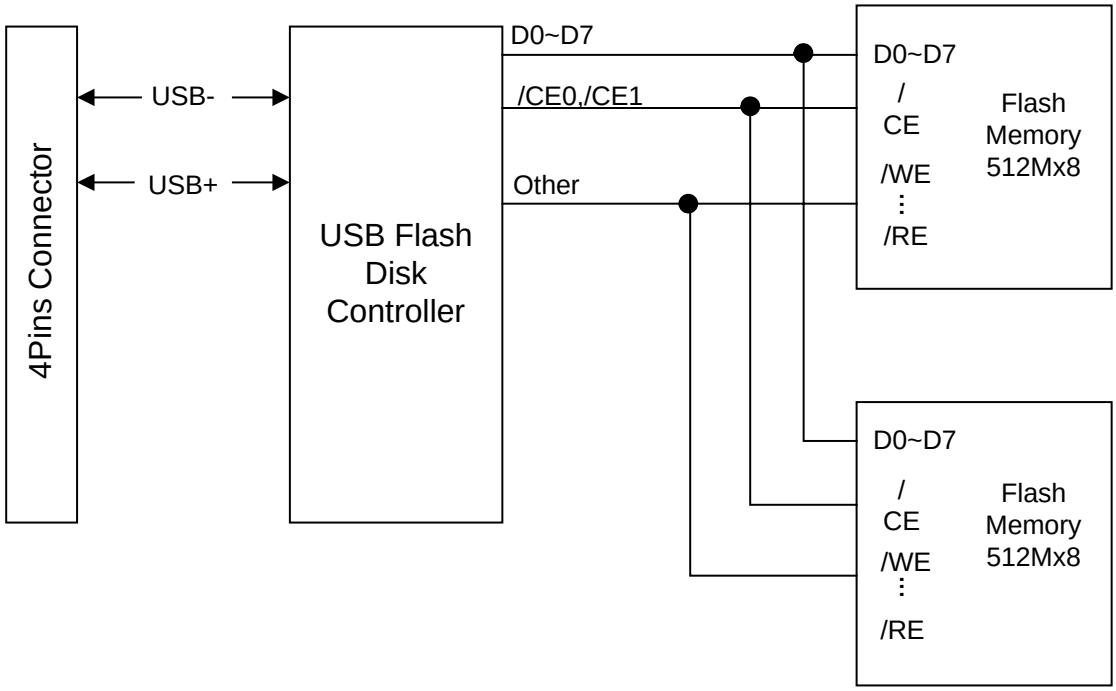
Side	Millimeters	Inches
A	75.00 ± 1.00	2.95 ± 0.04
B	22.00 ± 1.00	0.87 ± 0.04
C	10.00 ± 1.00	0.39 ± 0.04

Block Diagram

With 1 pcs of 1Gx8 Flash Memory



With 2 pcs of 512Mx8 Flash Memory



Pinouts

Pin No.	Pin Name
01	VCC
02	USB-
03	USB+
04	VSS

Pin Identification

Symbol	Function
USB- USB+	USB differential signal: The pairs are used to transmit Data/Address/Command
VSS	Ground
VCC	USB Power Input

Specifications

Host Interface	USB 2.0
Storage Capacity	1GB
Color	Blue
Dimension	22 (W) x 75 (L) x 10 (H) mm
Weight	11g
Data Retention	10 years
Erase Cycles	>100,000 times
Media Transfer Rate	Read: 64 Mbit/sec (Max.), Write: 56 Mbit/sec (Max.)
Interface Burst Transfer Rate	Full Speed: 12 Mbit/sec (Max.), High Speed: 480 Mbit/sec (Max.)
Power Supply	DC 5V ± 10% via the USB port
Temperature Range	Operation: 0°C–70°C, Storage: -55°C–125°C
Certificates	CE, FCC, BSMI

DC Characteristics (Ta = 0°C to +70°C, Vcc = 3.3V ±10%)

Parameter	Symbol	MIN	TYP	MAX	Unit
Power Supply	VDD	3	3.3	3.6	V
Input Voltage	VIH	0.9x VDD	--	5	V
	VIL	-0.3	--	0.2 x VDD	V
Output Voltage	VOH	VDD-0.4	--	--	V
	VOL	--	--	0.4	V
Input leakage current	ILK	-1	--	1	uA
Working Current	IRW	--		--	mA
Operating Temperature	Ta	0		70	°C
Storage Temperature	Ts	-55		+150	°C
IO output current	IOH	--	4	--	mA
	IOL	--	4	--	mA

AC Characteristics

Parameter	Symbol	MIN	TYP	MAX	Unit
Input rising delay	TPIlh	0.35(2PF)	0.4(4PF)	0.54(8PF)	ns
Input falling delay	TPIhl	0.46(2PF)	0.53(4PF)	0.64(8PF)	ns
Output rising delay	TPOlh	1.35(10PF)	1.97(30PF)	2.59(50pF)	ns
Output falling delay	TPOhl	1.61(10PF)	2.41(30PF)	3.21(50pF)	ns

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